

ABSTRACT OF THE DISCLOSURE

An electroacoustic transducer, for emission of acoustic waves as a function of an electrical signal, includes a thick piece with a density of less than 0.1 kg/l and a thickness greater than 5mm, fixed to an electrical conductor, forming a winding with several turns around the thick piece, turns in which the current flows in the same direction, at least one polarized piece, connected to at least one magnetic material, all presenting the same pole (N) to the conductor, the polarized piece forming a return on at least one face of the polarized piece, applying, in cooperation with the magnetic material, a magnetic field to the environment of the conductor and an input for the electrical signal, connected to the terminals of the electrical conductor. The electrical signal thus flowing in the electrical conductor, arranged in the magnetic field, causes the displacement of the thick piece.